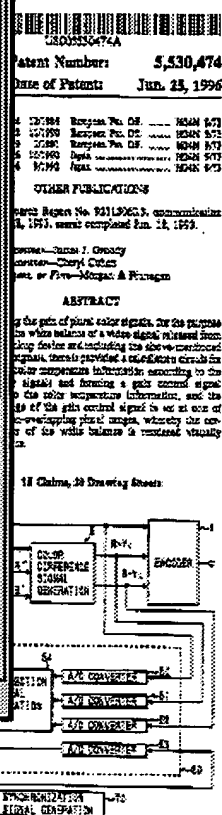


284 US 5528373 A



US-PAT-NO: 5325185

DOCUMENT-IDENTIFIER: US 5325185 A

TITLE: Apparatus and method for adjusting white balance of a video camera

----- KWIC -----

Detailed Description Text - DETX (4):

The position data is used by the microprocessor 12 to represent how much light can pass through the iris 2. As position sensor 11, a hall effect device may be used, for example. Other position sensing mechanisms may equally well be used. Twelve is a microprocessor for calculating the most suitable white balance control data in accordance with the output of the signal level detector and the position data of the iris 2.

Detailed Description Text - DETX (22):

Sensor 11 sends position information of iris 2 to microprocessor 12. Microprocessor 12 calculates the optimum white balance data according to the

US 5325185 A
Patent Number 5,325,185
Date of Patent Jun. 28, 1994

1/1989 Nakamura et al. 531/29
1/1989 Kawada et al. 531/29
1/1989 Kawada et al. 531/29
1/1989 Kanda 531/29
1/1989 Yaguchi 531/29
1/1989 Wada 531/29
1/1989 Kanda et al. 531/29
1/1989 Tanaka 531/29
1/1989 Kanda et al. 531/29

OTHER PUBLICATIONS

"Electronic", Part V, Compendium '89, JETI, Inc. pp. 55-57, Tokyo, Japan
Inventor: Tetsu I. Otsu
Attorney: Shiro H. Nishida
U.S. Pat. No. 5,325,185, Jerry A.

ABSTRACT

An adjustment circuit in which red, green and blue representative of a video image are input to a signal level detector. A sensor the level of the red, green and blue and a second detector detect the level of the video image. A controller calculates the optimum white balance data according to the output of the signal level detector and the output of the second detector.

1 Claim, 3 Drawing Sheets



Details: Text Image HTML KWIC

304 US 5331154 A

305 US 5329361 A

306 US 5325185 A

307 US 5321515 A

Controller

CONSTITUTION: The pick up tube 2 modulates optically the color component with the stripe filter and the camera lens 1 is placed in front of the pick up tube 2. The amplifying and detecting circuit 12 amplifies and detects the modulation amplifying signal, and the iris opening of the lens 1 is automatically controlled with the lens iris control signal of the output, and the gain control circuit 13 controls the output level of BPF 5 with the lens iris control signal to correct the white balance. Thus, even if the lens iris is changed, the white balance can be avoided from being shifted.

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人 舟屋主 百井 磯夫

[illegible][illegible]

482	JP 56122283 A	
483	JP 55046685 A	
484	JP 55028653 A	
485	WO 3001796 A1	

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File Edit View Tools Window Help

PAT-NO: JP403003591A

DOCUMENT-IDENTIFIER: JP 03003591 A

TITLE: WHITE BALANCE CONTROLLER

----- KWIC -----

Abstract Text - FPAR (1):
PURPOSE: To reduce malfunction of white balance correction by providing a detection means detecting zoom position of a camera lens and controlling the output of a color signal gain control signal in response to the signal level.

特許庁 特許出願公開
 (A) 平3-3591
 特許庁 平成3年(1991)1月25日
 特許庁 特許出願の公表 (金4頁)
 特許庁 1000号 特許庁 1000号 特許庁 1000号
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Details Text Images HTML KWIC

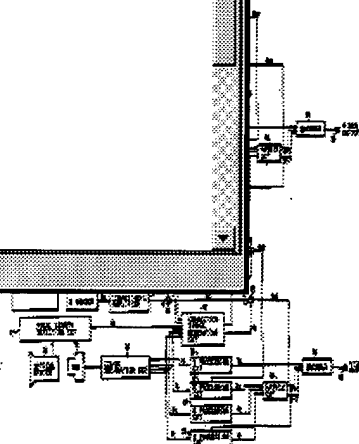
455	JP 03030576 A	
456	JP 03024869 A	
457	JP 03003591 A	
458	JP 02210974 A	

特許庁 特許出願の公表 (金4頁)
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 特許庁 1000号 特許庁 1000号 特許庁 1000号

to Detail

control means for controlling the white balance of outputs of said image sensing means by varying a combination of said first and second control signals in accordance with the variable magnification of zoom in said zoom optical system.

6. Closing. 1. Exhorting Shareholders



341	US 5034804 A
342	US 5020890 A
343	US 5019894 A
344	US 5018017 A

— 五八 —

No Detail

US-PAT-NO: 5283632

DOCUMENT-IDENTIFIER: US 5283632 A

See image for Certificate of Correction

TITLE: Image pickup apparatus

----- KWIC -----

Brief Summary Text - BSTX (25):

When information from the optical system is constituted by information of a focal distance (length) from the image pickup optical system, a synthesis ratio of the control signals from both the white balance adjusting means is set variable in accordance with the focal distance information from the image pickup optical system to obtain a single control signal, thereby performing white balance adjustment.

Brief Summary Text - BSTX (26):

In addition, when information from the optical system is constituted by information from the distance measuring means for measuring the distance



US 5283632 A

Patent Number: 5,283,632

Date of Patent: Feb. 3, 1994

1/1987 Kato et al. 528/28 C
 1/1988 Moore et al. 528/28 C
 1/1989 Hoshi 528/28 C
 1/1989 Takahashi et al. 528/28 C
 1/1989 Takahashi et al. 528/28 C

EPOCH PATENT DOCUMENTS

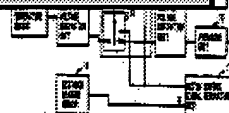
1/1987 European Pat. Off. 528/28 C
 1/1988 Japan 528/28 C

Inventor—James J. Choudry
 Attorney—Michael H. Lee
 et al. Firm—Roth, Hecker, Daley &

ABSTRACT

Image apparatus includes a first white balancing circuit for generating a control signal for a adjustment by using a signal output from a first element, a second white balance adjustment circuit for generating a control signal for white balance by using a signal output from a second element, and a synthesizing circuit for synthesizing a variable synthesis ratio of the signals from the two white balance adjusting circuits with information from an optical

27 Claims, 29 Drawing Sheets



314 US 5293225 A

315 US 5291298 A

316 US 5283632 A

317 US 5270802 A

-57-

A block diagram showing the connection between the color measurement unit and the white balance control unit. The color measurement unit is represented by a dashed box labeled "COLOR MEASUREMENT UNIT". It is connected to a solid box labeled "WHITE BALANCE CONTROL UNIT". The connection is made via a line labeled "S-1".

269	US 5604530 A	
270	US 5602588 A	
271	US 5602412 A	
272	US 5594502 A	